

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1085	148/407,421,668.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/21 15:59
L2	804	75/611-621.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/21 15:59
L3	1506	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2011/04/21 16:00
L6	486	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:00
L7	3372	L1 or L2 or L3 or L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:00
L8	244	L7 and ("2010" or "2011"). py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:01
L9	50	L8 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:01
L10	2	WO "2005049882"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:08
L11	2	JP "2005045166"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:08
L12	1	EP "1329526"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:08
L13	2	EP "442752"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:08
L14	2	WO "2005010220"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:08

L15	2	"20070018138"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:09
L16	10	L10 or L11 or L12 or L13 or L14 or L15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2011/04/21 16:10
L17	2316	C22B003/\$2.ipc.	EPO; JPO	ADJ	ON	2011/04/21 16:20
L18	2090	C22C027/\$2.ipc.	EPO; JPO	ADJ	ON	2011/04/21 16:21
L19	45169	C23C014/\$2.ipc.	EPO; JPO	ADJ	ON	2011/04/21 16:21
L20	1645	(L17 or L18 or L19) and ("2010" or "2011").py.	EPO; JPO	ADJ	ON	2011/04/21 16:21
L22	45	L20 and (hafnium or hf!)	EPO; JPO	ADJ	ON	2011/04/21 16:21
L23	17829	M25-G28 or M13-G02 or M26-B13 or V04-X01B	DERWENT	ADJ	ON	2011/04/21 16:23
L24	636	L23 and (hafnium or hf!)	DERWENT	ADJ	ON	2011/04/21 16:23
L25	73	L24 and (purity or pure or 4N or 4N5 or 5N or 5N5 or 6N)	DERWENT	ADJ	ON	2011/04/21 16:24
S1	13	(US-20060266158-\$ or US- 20010037938-\$).did. or (US- 6861030-\$ or US-5196916-\$ or US-4668287-\$ or US- 4637831-\$ or US-5112493-\$ or US-5458697-\$ or US- 6596228-\$).did. or (EP- 134643-\$).did. or (JP- 2002105552-\$ or JP- 2002206103-\$).did. or (EP- 154448-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 13:51
S2	160	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:51
S3	962	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:52

S4	7312	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 13:52
S5	21	(US-20010037938-\$ or US-20060266158-\$ or US-20070018138-\$ or US-20030062261-\$).did. or (US-5112493-\$ or US-6596228-\$ or US-4637831-\$ or US-4668287-\$ or US-6861030-\$ or US-5458697-\$ or US-5196916-\$).did. or (EP-134643-\$ or WO-2007007498-\$ or EP-1686196-\$ or EP-1652944-\$ or WO-2005049882-\$).did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP-2008179897-\$ or JP-2007119925-\$).did. or (EP-154448-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 14:00
S6	332	(S3 or S4) and (hafnium or hf!) not (S2 or S5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:00
S7	64	S6 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:01
S8	87	S6 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1 or sputter \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 14:01
S9	848	75/611-621.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:14
S10	1093	148/668,407,421.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:14

S11	473	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S12	2304	S9 or S10 or S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S13	482	S12 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S14	351	S13 and (pure or purity or purif\$8 or refin\$8 or 4N\$1 or 5N\$1 or 6N\$1 or sputter \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:15
S15	1901	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S16	185	S15 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S17	526	S14 or S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:16
S18	186	S17 and (hafnium or hf!) same (pure or purify or ultra-pure or purifi\$8 or 4N \$1 or 5N\$1 or 6N\$1 or "99.9%" or "99.99%" or "99.999%" or "99.9999%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:17
S19	152	C22B034/14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18

S20	199	C22C027/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S21	857	C22C028/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S22	7881	C23C014/06	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S23	13429	C23C014/34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S24	7224	m13-G02\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S25	2076	M25-G28\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S26	2892	M26-B13\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:18
S27	4302	V04-X01B\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S28	37875	(S19 or S20 or S21 or S22 or S23 or S24 or S25 or S26 or S27)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19

S29	120	S28 and (hafnium or hf!) same (pure or purify or ultra-pure or purifi\$8 or 4N\$1 or 5N\$1 or 6N\$1 or "99.9%" or "99.99%" or "99.999%" or "99.9999%")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S30	280	S18 or S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:19
S31	24	(US-20010037938-\$ or US-20060266158-\$ or US-20070018138-\$ or US-20030062261-\$).did. or (US-5112493-\$ or US-6596228-\$ or US-4637831-\$ or US-4668287-\$ or US-6861030-\$ or US-5458697-\$ or US-5196916-\$ or US-7459036-\$).did. or (EP-134643-\$ or WO-2007007498-\$ or EP-1686196-\$ or EP-1652944-\$ or WO-2005049882-\$).did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP-2008179897-\$ or JP-2007119925-\$).did. or (EP-154448-\$ or WO-2005049882-\$ or WO-2005010220-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 15:19
S32	265	S30 not (S2 or S31)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:20
S33	260	S30 not (S2 or S31 or S8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:20
S34	474	(hafnium or hf!) same (sputter\$8) same (pure or purity or purif\$8 or refin\$8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:49

S35	442	S34 not (S33 or S2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 15:49
S36	1	"4897116".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S37	1	"5196916".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S38	1	"5458697".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S39	1	"5679983".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S40	1	"6737030".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S41	1	"6986834".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S42	1	"7241368".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S43	1	"6723183".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S44	1	"5460793".pn.	DERWENT	ADJ	ON	2009/02/26 17:07
S45	1	"20040170552"	DERWENT	ADJ	ON	2009/02/26 17:08
S46	8	S36 or S37 or S38 or S39 or S40 or S41 or S42 or S43 or S44 or S45	DERWENT	ADJ	ON	2009/02/26 17:08
S47	1	EP "1329526"	DERWENT	ADJ	ON	2009/02/26 17:10
S48	1	EP "442752"	DERWENT	ADJ	ON	2009/02/26 17:10
S49	4	(7459036 5196916  5458697 6861030).pn.	USPAT	ADJ	ON	2009/02/26 17:47
S50	62	("3654526"   "4108644"   "4333808"   "4368072"   "4619695"   "4683645"   "4722827"   "4725872"   "4770948"   "4782380"   "4788160"   "4793854"   "4891066"   "4897287"   "4920073"   "4985750"   "4997518"   "5027185"   "5049975"   "5070038"   "5087578"   "5143866"   "5175126"   "5196916"   "5330589"   "5336378"   "5458697"   "5679983"   "6207589"   "6210634"   "6911619").PN. OR	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/26 17:48

		("5196916"   "5458697"   "6861030"   "7459036"). URPN.				
S51	27	(US-20010037938-\$ or US-20060266158-\$ or US-20070018138-\$ or US-20030062261-\$).did. or (US-6861030-\$ or US-5458697-\$ or US-5196916-\$ or US-7459036-\$ or US-5679983-\$).did. or (WO-2007007498-\$ or EP-1686196-\$ or EP-1652944-\$ or WO-2005049882-\$ or EP-442752-\$).did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP-2008179897-\$ or JP-2007119925-\$).did. or (WO-2005049882-\$ or WO-2005010220-\$ or EP-442752-\$ or WO-2007007498-\$ or JP-2003017491-\$ or WO-03009367-\$ or WO-0199176-\$ or US-20030143138-\$ or WO-0229125-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/02/26 17:48
S52	57	S50 not S51	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/02/26 17:48
S53	2	"20070018138"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:06
S54	2	"20090226341"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:18
S55	2	"20060266158"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:24



S56	2	"6861030".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:26
S57	3	"6896788".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:26
S58	168	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
S59	971	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
S60	7377	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
S61	8283	S58 or S59 or S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
S62	254	S61 and ("2009").py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:28
S63	21	S62 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:29
S64	2	"20090126529"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:29

S65	2	"6861030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:33
S66	4	("4108644"   "4722827"   "5196916"   "6210634").PN. OR ("6861030").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/10 14:34
S67	852	75/611-621.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S68	1109	148/668,407,421.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S69	2021	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S70	474	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S71	474	C22B34/14 or C22B034/14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S72	5481	C22C027/00 or C22C27/00 or C22C28/00 or C22C028/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36
S73	2163	M25-G28\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:36

S74	3002	M26-B13\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
S75	44818	C23C14/06 or C23C14/34 or C23C014/06 or C23C014/34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
S76	57153	S67 or S68 or S69 or S70 or S71 or S72 or S73 or S74 or S75	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
S77	3544	S76 and "2009".py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
S78	353	S77 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:37
S79	55	S77 and (hafnium or hf!) and (purity or 5N or 6N or wt ppm or wtppm or part per million)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:38
S80	2	"20090057142"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:42
S81	2	JP "04358030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:45
S82	4	"2782116".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S83	2	"7674441".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39

S84	2	"20060062910"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S85	2	"20060193979"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S86	3	"20090126529"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S87	2	"20090226341"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S88	9	S84 or S85 or S86 or S87	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:39
S89	2	"20090000704"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:41
S90	2	JP "07316681"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/05/13 17:42
S91	181	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/05/13 17:42
S92	972	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/05/13 17:42
S93	7523	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/05/13 17:42
S94	362	(S92 or S93) and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/05/13 17:47
S95	3	"20050065358"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/05/13 17:50

S96	799	75/611-621.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S97	1058	148/668,407,421.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S98	434	420/422.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S99	1359	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S100	3519	S96 or S97 or S98 or S99	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S101	257	S100 and ("2009" or "2010").py.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S102	61	S101 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/05/13 17:55
S103	131	C22B34/14 or C22B034/14	FPRS; EPO; JPO	ADJ	ON	2010/05/13 17:57
S104	259	C22C27/00 or C22C027/00 or C22C28/00 or C22C028/00	FPRS; EPO; JPO	ADJ	ON	2010/05/13 17:57
S105	18292	C23C14/06 or C23C014/06 or C23C14/34 or C23C014/34	FPRS; EPO; JPO	ADJ	ON	2010/05/13 17:58
S106	23	(S103 or S104 or S105) and ("2009" or "2010").py. and (hafnium or hf!)	FPRS; EPO; JPO	ADJ	ON	2010/05/13 17:58
S107	189	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:14
S108	974	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:14
S109	7647	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:14
S110	14	(S107 or S108 or S109) and (hafnium or hf!) and "2010". py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:14

S111	859	75/611-621.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:23
S112	1144	148/407,421,668.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:23
S113	483	420/422.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:23
S114	2149	204/298.12,298.13.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:23
S115	3596	S111 or S112 or S113 or S114	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/10/06 08:24
S116	144	S115 and "2010".py.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/10/06 08:24
S117	34	S116 and (hafnium or hf!)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/10/06 08:24
S118	49554	(C22B3/\$2 or C22B003/\$2 or C22C27/\$2 or C22C027/ \$2 or C23C14/\$2 or C23C014/\$2)	FPRS; EPO; JPO	ADJ	ON	2010/10/06 08:25
S119	568	S118 and "2010".py.	FPRS; EPO; JPO	ADJ	ON	2010/10/06 08:25
S120	13	S119 and (hafnium or hf!)	FPRS; EPO; JPO	ADJ	ON	2010/10/06 08:25
S121	1	EP "1329526"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S122	2	EP "1652944"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26

S123	2	EP "1686196"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S124	2	EP "442752"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S125	2	"20030062261"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S126	2	JP "2003062261"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S127	2	JP "2002105552"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S128	2	JP "04358030"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S129	2	JP "07316681"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S130	2	JP "2003193150"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:26
S131	2	JP "2000345252"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:27

S132	2	JP "2002206103"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:27
S133	2	JP "2003306728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:27
S134	21	S121 or S122 or S123 or S124 or S125 or S126 or S127 or S128 or S129 or S130 or S131 or S132 or S133	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:27
S135	2	WO "2005049882"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/10/06 08:44
S136	37	(US-20010037938-\$ or US- 20060266158-\$ or US- 20070018138-\$ or US- 20030062261-\$ or US- 20090226341-\$ or US- 20090126529-\$ or US- 20090057142-\$ or US- 20060193979-\$ or US- 20060062910-\$ or US- 20090000704-\$).did. or (US- 6861030-\$ or US-5458697-\$ or US-5196916-\$ or US- 7459036-\$ or US-5679983-\$ or US-6896788-\$ or US- 7674441-\$).did. or (WO- 2007007498-\$ or EP- 1686196-\$ or EP-1652944-\$ or WO-2005049882-\$ or EP- 442752-\$).did. or (JP- 2002206103-\$ or JP- 2002105552-\$ or JP- 2008179897-\$ or JP- 2007119925-\$).did. or (WO- 2005049882-\$ or WO- 2005010220-\$ or EP- 442752-\$ or WO- 2007007498-\$ or JP- 2003017491-\$ or US- 20030143138-\$ or WO- 0229125-\$ or WO-0190445- \$ or WO-2004079039-\$ or US-20060193979-\$ or US-	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/10/06 08:47



		20060062910-\$).did.				
S137	8	S136 and (forg\$4 and roll \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/06 08:48
S138	4	(Hafnium or hf!) same sputtering target same (forg \$4 and roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/06 08:49
S139	4	(Hafnium or hf!) near5 sputtering target and (forg \$4 and roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/06 08:49
S147	37	(US-20010037938-\$ or US-20060266158-\$ or US-20070018138-\$ or US-20030062261-\$ or US-20090226341-\$ or US-20090126529-\$ or US-20090057142-\$ or US-20060193979-\$ or US-20060062910-\$ or US-20090000704-\$).did. or (US-6861030-\$ or US-5458697-\$ or US-5196916-\$ or US-7459036-\$ or US-5679983-\$ or US-6896788-\$ or US-7674441-\$).did. or (WO-2007007498-\$ or EP-1686196-\$ or EP-1652944-\$ or WO-2005049882-\$ or EP-442752-\$).did. or (JP-2002206103-\$ or JP-2002105552-\$ or JP-2008179897-\$ or JP-2007119925-\$).did. or (WO-2005049882-\$ or WO-2005010220-\$ or EP-442752-\$ or WO-2007007498-\$ or JP-2003017491-\$ or US-20030143138-\$ or WO-0229125-\$ or WO-0190445-\$ or WO-2004079039-\$ or US-20060193979-\$ or US-20060062910-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 13:53
S148	8	S147 and forg\$4 and roll\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 13:53
S149	11	S147 and forg\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 13:55

S150	3	S149 not S148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 13:55
S151	0	S147 and roll\$4 not (S148 or S149)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 13:56
S152	230	(hafnium or hf!) and (sputter \$4 near5 target) and (forg \$4) and (roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:11
S153	56	(hafnium or hf!) same (sputter\$4 near5 target) and (forg\$4) and (roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:19
S154	55	(hafnium or hf!) same (sputter\$4 near5 target) and (forg\$4) same(roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:19
S155	55	(hafnium or hf!) same (sputter\$4 near5 target) and (forg\$4) same (roll\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:19
S156	2	EP "442752"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S157	2	JP "2003017401"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S158	2	JP "10060631"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S159	2	JP "2003017491"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S160	2	JP "06306597"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S161	2	EP "902102"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S162	1	WO "0229125"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30

S163	1	EP "785293"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S164	2	EP "442752"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S165	14	S156 or S157 or S158 or S159 or S160 or S161 or S162 or S163 or S164	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:30
S166	70	(hafnium or hf!) and (sputter \$4 near5 target) and (forg \$4) same (roll\$4) not S155	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2010/10/13 14:42
S167	228	(Yuichiro near2 Shindo).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/04/21 13:26
S168	45	S167 and ("2010" or "2011").py.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/04/21 13:26
S169	975	(Nikko Materials).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/04/21 13:39
S170	7930	(Nippon Mining).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/04/21 13:39
S171	25	(S169 or S170) and ("2010" or "2011").py. and (hafnium or hf!)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2011/04/21 13:40

**EAST Search History (I nterference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp

L26	29	(hafnium or hf!) same (purity or pure or 4N or 4N5 or 5N or 5N5 or 6N)	UPAD	ADJ	ON	2011/04/21 16:31
S140	481	75/611-621.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/10/06 09:27
S141	912	148/407,421,668.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/10/06 09:27
S142	338	420/422.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/10/06 09:27
S143	1400	204/298.12,298.13.ccls.	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/10/06 09:27
S144	23	(S140 or S141 or S142 or S143) and "2010".py. and (hafium or hf!)	US-PGPUB; USPAT; UPAD	ADJ	ON	2010/10/06 09:28
S145	211	(hafium or hf!) and sputter\$4	UPAD	ADJ	ON	2010/10/06 09:28
S146	23	(hafium or hf!) and sputter\$4 near5 target	UPAD	ADJ	ON	2010/10/06 09:28

**4/ 21/ 2011 4:33:04 PM**

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